

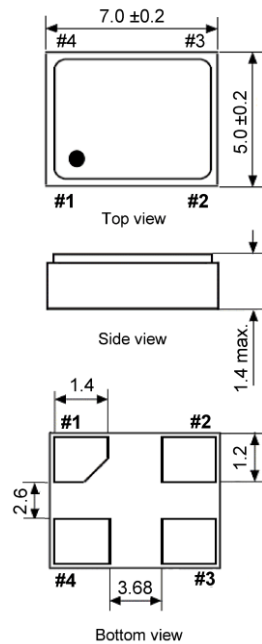


## Clock Oscillator SMD-version

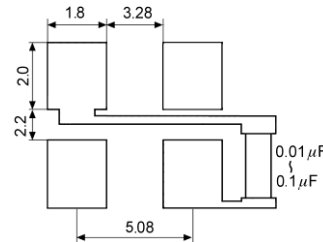
+1.8 / +2.5 / +3.3 V

part no.	12.xxxxx
model	KXO-V97
frequency	32.768kHz
frequency stability at -20° ~ +70°C; -40° ~ +85°C	±25 ppm, ±50 ppm
operating temperature	standard -20° ~ +70°C; available -40° ~ +85°C (=KXO-V97T)
storage temperature	-55° ~ +125°C
supply voltage range	+1.8 V ~ +3.3 V
supply voltage V <sub>DD</sub>	standard + 3.3 V DC ± 10 % available +1.8 V DC ± 5 %; +2.5 V DC ± 5 %
supply current max.	1 mA
symmetry	45 % ~ 55 % at 50 % V <sub>DD</sub> level
rise & fall time max.	5 ns
"O" level max.; "1" level min.	VOL: 10 % V <sub>DD</sub> ; VOH: 90 % V <sub>DD</sub>
tri-state control voltage (Pin#1)	VIH: V <sub>DD</sub> x 0.7 min.; VIL: V <sub>DD</sub> x 0.3 max.
output load	15pF
start up time max.	10 ms
disable/enable delay time max	50 µs / 4 ms
standby current max.	50 µA (Pin #1 = VIL)
contents of reel	1000 pcs.

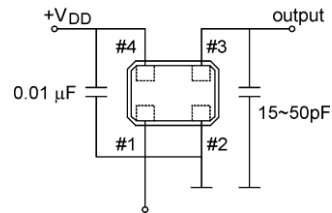
### Dimensions (mm):



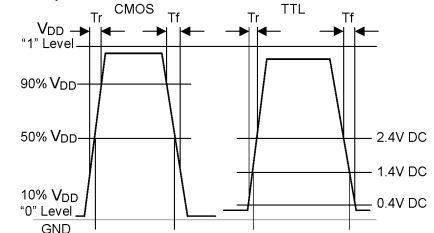
### Suggested soldering pad:



### Test circuit:



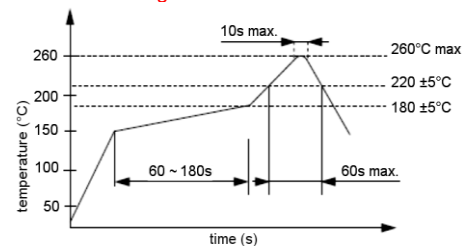
### Output waveform:



PIN	Connection
1	"L" (0V) "H" or OPEN
2	GND
3	Z OUTPUT
4	V <sub>DD</sub>

Z: high impedance

### Reflow soldering condition:



### Tape specification:

